## PATENT COOPERATION TREATY

REC'D 0 8 JUL 2004 From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of malling (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. 25.02.2004 18.04.2003 PCT/EP2004/050205 International Patent Classification (IPC) or both national classification and IPC F23D14/14 Applicant N.V. BEKAERT S.A. This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/050205

	Вох	No	). I	Basis of the opinion
1.	With the	n reg	gard guag	to the <b>language</b> , this opinion has been established on the basis of the international application in je in which it was field, unless otherwise indicated under this item.
		lan	gua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With nec	h re ess	gard ary t	I to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. ty	ype	of m	naterial:
	[		a se	equence listing
	[		tabl	e(s) related to the sequence listing
	b. fo	orm	at of	f material:
	ĺ		in w	vritten format
	!		in c	omputer readable form
	c. ti	ime	of fi	ling/furnishing:
	ĺ		con	stained in the international application as filed.
			file	d together with the international application in computer readable form.
			furi	nished subsequently to this Authority for the purposes of search.
3.		ha co	as be pies	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.

4. Additional comments:

	ox No. II	Priority						
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	$\boxtimes$	copy of the earlier	application	n whose pr	iority has been claimed (Rule 43bis.1 and 66.7(a)).			
		translation of the e	arlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).			
					der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.			
. 🗆	has be		ules 43 <i>bis.</i>	1 and 64.1	rity had been claimed due to the fact that the priority claim ). Thus for the purposes of this opinion, the international the relevant date.			
. Ac	dditional d	observations, if nece	essary:					
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	ox No. V dustrial				bis.1(a)(i) with regard to novelty, inventive step or no supporting such statement			
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2. Citations and explanations

see separate sheet

Reference is made to the following documents:

- D1 EP 0 594 262 A
- D2 US 2002/0148226 A
- D3 WO 01 79756 A

## V. Statement according to Rule 43bis.1(a)(i) PCT

- 1) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

  Document D1 (Fig.1 and corresponding description) discloses a gas burner with the same features:
  - a metal burner membrane (3) comprising a base section (cylindrical portion) having a smallest radius of curvature  $R_{\text{base}}$  (the radius of curvature of the cylindrical portion is uniform and equals the radius of the cylinder) and a closing section (flat top portion),
  - the burner membrane is uninterrupted,
  - the burner membrane comprises a transition region (torus shaped portion) for connecting said base section to said closing section, said transition region having a smallest radius of curvature  $r_{transition}$  larger than zero and smaller than  $R_{base}$ .

From Fig.1 it clearly appears that the radius of the corners at the top of the cylindrical membrane is smaller than the radius of the cylinder. Otherwise there would be no flat top but a spherical closing section.

Document D2 also discloses the subject-matter of claim 1.

The subject-matter of claims 11,12 is also known from D1. The subject-matter of claims 5,6,10-12 is also known from D2. Hence the subject-matter of these claims is not new (Article 33(2) PCT). The subject-matter of claims 2-4,8,9 cannot be considered as inventive (Article 33(3) PCT) because the structures of the burner membrane claimed therein are well known to a skilled person (see for example D3) who would use them in the burner of D1 or D2. Similarly the shape of the burner membrane in claims 13-15 are not inventive (Article 33(3) PCT) because

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International application No.

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they merely represent shapes a skilled person would choose to adapt the shape of the burner to the shape of the object to be heated.

- 3) Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1,D2,D3 is not mentioned in the description, nor are these documents identified therein.
- 4) The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).